

ALG.2 Ch.1.7 p.59

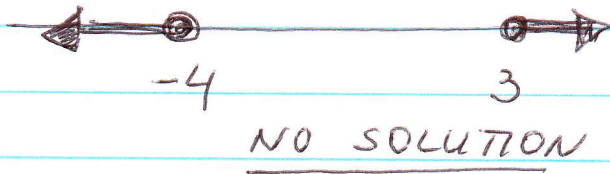
#56

(4p)

$$x + 9 \leq 5 \quad \text{AND} \quad \frac{4x}{4} \geq \frac{12}{4}$$

$$-9 \quad -9$$

$$x \leq -4 \quad \text{AND} \quad x \geq 3$$



#60

(6p)

$$5a + 12 < 2 \quad \text{AND} \quad 5a - 12 < 3$$

$$-12 \quad -12 \qquad +12 \quad +12$$

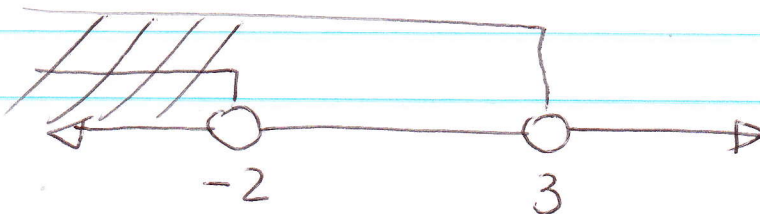
$$\frac{5a}{5} < \frac{-10}{5}$$

$$\frac{5a}{5} < \frac{15}{5}$$

$$a < -2 \quad \text{AND} \quad a < 3$$



$a < -2$



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#681

5 points

$$\frac{1}{2}(x+9) \leq -3 \quad \text{AND} \quad -10 < -5x$$

$\div -5 \quad \div -5$

MULTIPLY BY 2

$$2 \cdot \frac{1}{2}(x+9) \leq -3 \cdot 2$$

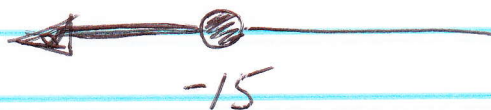
$$2 > x$$

$$\underline{x < 2}$$

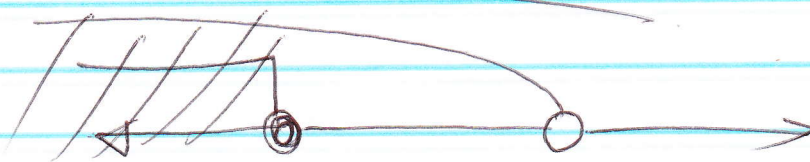
$$x+9 \leq -6$$

$$-9 \quad -9$$

$$\underline{x \leq -15}$$



$$\underline{x \leq -15}$$



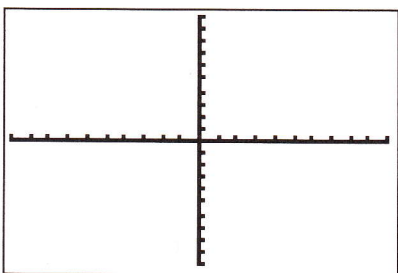
#56.

$$x + 9 \leq 5 \text{ and } 4x \geq 12$$

Y= X,T,Θ,n + 9 2nd MATH 6 5 2nd MATH
 > ENTER 4 X,T,Θ,n 2nd MATH 4 1 2 ENTER

Plot1 Plot2 Plot3
 \Y1 X+9≤5 and 4X
 ≥12
 \Y2=
 \Y3=
 \Y4=
 \Y5=
 \Y6=

GRAPH



Answer: No solution

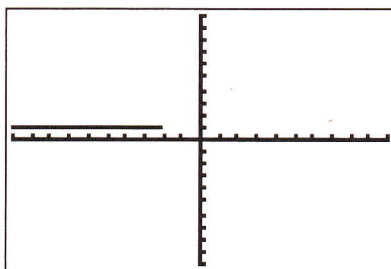
#60

$$5x + 12 < 2 \text{ and } 5x - 12 < 3$$

Y= 5 X,T,Θ,n + 1 2 2nd MATH 5 2
 2nd MATH > ENTER 5 X,T,Θ,n - 1 2 2nd
 MATH 5 3 ENTER

Plot1 Plot2 Plot3
 \Y1 5X+12<2 and
 5X-12<3
 \Y2=
 \Y3=
 \Y4=
 \Y5=
 \Y6=

GRAPH

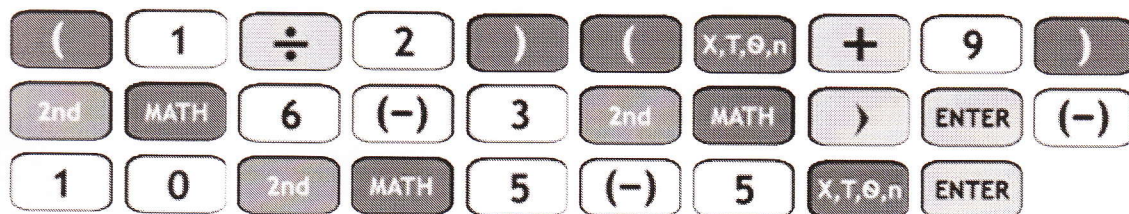


Answer: $x < -3$

Ch.1.7

#68

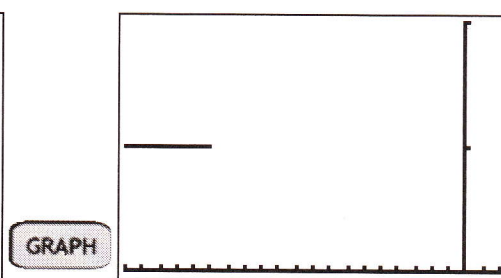
$$(1/2)(x + 9) \leq -3 \text{ and } -10x < -5x$$



Plot1 Plot2 Plot3
Y1 $(1/2)(X+9) \leq -3$
and $-10 < -5X$
Y2=
Y3=
Y4=
Y5=
Y6=



WINDOW
Xmin=-20
Xmax=2
Xscl=1
Ymin=0
Ymax=2
Yscl=
Xres=1



Answer: $x \leq -15$